Magnitude of Findings



Theme	Number of Objectives
Demonstrate Deep Space Capabilities	
Scientific Research	
Planetary Defense	30
Other	

Overarching observations

Deep Space Capabilities Theme: Key Observations



- Objectives
 - Objective 1
 - Objective 2
 - Objective 3
- Activities
 - Activity 1
 - Activity 2
 - Activity 3
- Target Characteristics
 - Characteristic 3
 - Characteristic 2
 - Characteristic 3

Scientific Research Theme: Key Observations



- Objectives
 - Objective 1
 - Objective 2
 - Objective 3
- Activities
 - Activity 1
 - Activity 2
 - Activity 3
- Target Characteristics
 - Characteristic 3
 - Characteristic 2
 - Characteristic 3

Planetary Defense Theme: Key Observations



Objectives

- Characterize properties of an NEO
- Determine effectiveness of different deflection techniques
- Examine various surface attachment techniques
- Verification of remote characterization (i.e., learn ground truth)
- Sample return
- Simulate a multi-national planetary defense campaign
- Planning operation and coordination of large deep space missions
- Public buy-in for planetary defense
- Involve international community
- Verify autonomous proximity operations

Activities

- Collect sample returns
- Observe and examine result of various deflection techniques
- Test terminal phase guidance and control
- Operate avatars to explore parts of the NEO
- Implanting seismic sensors and stimulators
- Measure and examine the NEO environment
- Drilling to determine characteristics
- Observe response to laser and other focus techniques
- Target Characteristics
 - Survey to get complete target selection catalog
 - Targets that are potential impact hazards (i.e., smaller objects)
 - Need queue of targets over course of several years
 - Choose targets with fairly simple characteristics (i.e., shapes, etc.)
 - More challenging dynamics for follow on mission (ex., longer duration requires S.E.P. which enables greater NASA Explore NOW: August 10-11, 2010 target selection)



Backup

Parking Lot



Optional chart

Possible Breakout Discussions for Tomorrow



Optional Chart